

SEQUENCE LISTING

<110> ENDO, NOBORU
YOSHIDA, KOUKI
AKIYOSHI, MIHO
YOSHIDA, YASUKO
OHSUMI, CHIEKO
IGARASHI, DAISUKE

<120> GENE CAPABLE OF IMPARTING SALT STRESS RESISTANCE

<130> 279689US0XPCT

<140> 10/553,124

<141> 2005-10-14

<150> PCT/JP04/05403

<151> 2004-04-15

<150> JP 2003-113194

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<150> JP 2004-075932

<151> 2004-03-17

<160> 17

<170> PatentIn version 3.3

<210> 1

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<212> DNA

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ggg gcc agc ggc cgg agc gtg ctg gtg acg ggc ggc gcg ggg ttc atc 217
Gly Ala Ser Gly Arg Ser Val Leu Val Thr Gly Gly Ala Gly Phe Ile
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Val	Val	Asp	Asn	Phe	His	Asn	Ser	Val	Pro	Glu	Ala	Leu	Glu	Arg	Val	
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cgc	ctc	atc	gcc	ggg	ccc	gcg	ctc	tcc	gcc	cgc	ctc	gac	ttc	atc	cgg	361
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Gly	Asp	Leu	Arg	Ser	Ala	Gly	Asp	Leu	Glu	Lys	Ala	Phe	Ala	Ala	Arg	
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agg	tac	gac	gcc	gtc	gtc	cac	ttc	gcg	ggg	ctc	aag	gcc	gtc	ggg	gag	457
Arg	Tyr	Asp	Ala	Val	Val	His	Phe	Ala	Gly	Leu	Lys	Ala	Val	Gly	Glu	
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Ser	Val	Ala	Arg	Pro	Asp	Met	Tyr	Tyr	Glu	Asn	Asn	Leu	Ala	Gly	Thr	
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atc	aac	ctc	tac	aag	gcc	atg	aac	gag	cac	ggc	tgc	aag	aag	atg	gtg	553
Ile	Asn	Leu	Tyr	Lys	Ala	Met	Asn	Glu	His	Gly	Cys	Lys	Lys	Met	Val	
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Phe	Ser	Ser	Ser	Ala	Thr	Val	Tyr	Gly	Trp	Pro	Glu	Val	Ile	Pro	Cys	
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Val	Glu	Asp	Ser	Lys	Leu	Gln	Ala	Ala	Asn	Pro	Tyr	Gly	Arg	Thr	Lys	
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Leu	Ile	Leu	Glu	Glu	Leu	Ala	Arg	Asp	Tyr	Gln	Arg	Ala	Asp	Pro	Gly	
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tgg	agc	atc	gtc	ctg	ctg	cgc	tac	ttc	aac	ccc	atc	ggc	gcc	cac	agc	745
Trp	Ser	Ile	Val	Leu	Leu	Arg	Tyr	Phe	Asn	Pro	Ile	Gly	Ala	His	Ser	
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Ser	Gly	Glu	Ile	Gly	Glu	Asp	Pro	Lys	Gly	Val	Pro	Asn	Asn	Leu	Leu	
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ccc	tac	atc	cag	cag	gtc	gcc	gtc	ggc	agg	ctc	ccc	gag	ctc	aac	gtc	841
Pro	Tyr	Ile	Gln	Gln	Val	Ala	Val	Gly	Arg	Leu	Pro	Glu	Leu	Asn	Val	

225				230				235								
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Tyr	Gly	His	Asp	Tyr	Pro	Thr	Arg	Asp	Gly	Thr	Ala	Ile	Arg	Asp	Tyr	
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Ile	His	Val	Val	Asp	Leu	Ala	Asp	Gly	His	Ile	Ala	Ala	Leu	Asn	Lys	
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Ala	Thr	Glu	Val	Tyr	Ala	Ser	Thr	Glu	Lys	Ala	Glu	Arg	Glu	Leu	Gly	
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Trp	Arg	Ala	Gln	Tyr	Gly	Ile	Glu	Glu	Met	Cys	Arg	Asp	Gln	Trp	Asn	
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Arg Pro Asp Met Tyr Tyr Glu Asn Asn Leu Ala Gly Thr Ile Asn Leu
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Ser Lys Leu Gln Ala Ala Asn Pro Tyr Gly Arg Thr Lys Leu Ile Leu
165 170 175

Glu Glu Leu Ala Arg Asp Tyr Gln Arg Ala Asp Pro Gly Trp Ser Ile
180 185 190

Val Leu Leu Arg Tyr Phe Asn Pro Ile Gly Ala His Ser Ser Gly Glu
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Ile Gly Glu Asp Pro Lys Gly Val Pro Asn Asn Leu Leu Pro Tyr Ile
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Gln Gln Val Ala Val Gly Arg Leu Pro Glu Leu Asn Val Tyr Gly His
225 230 235 240

Asp Tyr Pro Thr Arg Asp Gly Thr Ala Ile Arg Asp Tyr Ile His Val
245 250 255

Val Asp Leu Ala Asp Gly His Ile Ala Ala Leu Asn Lys Leu Phe Asp
260 265 270

Thr Pro Asp Phe Gly Cys Val Ala Tyr Asn Leu Gly Thr Gly Arg Gly
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Thr Ser Val Leu Glu Met Val Ala Ala Phe Lys Lys Ala Ser Gly Lys
290 295 300

Glu Ile Pro Thr Lys Met Cys Pro Arg Arg Pro Gly Asp Ala Thr Glu
305 310 315 320

Val Tyr Ala Ser Thr Glu Lys Ala Glu Arg Glu Leu Gly Trp Arg Ala
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ctcagaccta tcggtggaag atgtaacaag tagagaccgc tcgaatgtgc ctagctacga 180

agtttcgtac catctctctt gtcataacct catgtagatg gtcattttat tggaattagc	240
cttagccttc aggcccggcg ctgttaaaat ttgtttttaca catggatttt ctcgctacgt	300
gtgatacata ttgtgtctgt aataatcctg atcggagttt ccagtaataa aaccgatcca	360
cgacggtggc tacgccctgt gttgtagtac tgtgaatatg atgtggtaat aacaataact	420
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gaattagcct tagccttcag gcccgggcgt gttaaaattt gttttacaca tggattttct	300
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Met Val Ser																
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85						90				95						
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165						170				175						
gat Asp	tgg Trp	aag Lys	atc Ile	ata Ile	ctg Leu	ctc Leu	agg Arg	tac Tyr	ttc Phe	aac Asn	cct Pro	gtt Val	ggt Gly	gct Ala	cat His	694
180						185				190						195

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Pro Ser Gly His Ile Gly Glu Asp Pro Ser Gly Ile Pro Asn Asn Leu	
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215 220 225	
gtc tat gga acc gac tac aac aca aag gat gga act ggg gtg cgc gat	838
Val Tyr Gly Thr Asp Tyr Asn Thr Lys Asp Gly Thr Gly Val Arg Asp	
230 235 240	
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Tyr Ile His Val Val Asp Leu Ala Asp Gly His Ile Ala Ala Leu Gly	
245 250 255	
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Lys Leu Tyr Glu Asp Ser Asp Arg Ile Gly Cys Glu Val Tyr Asn Leu	
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Gly Thr Gly Lys Gly Thr Ser Val Leu Glu Met Val Ala Ala Phe Glu	
280 285 290	
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Lys Val Ser Gly Lys Lys Ile Pro Leu Val Leu Ala Gly Arg Arg Pro	
295 300 305	
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Gly Asp Ala Glu Ile Val Tyr Ala Ala Thr Ala Lys Ala Glu Lys Glu	
310 315 320	
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Leu Lys Trp Lys Ala Lys Tyr Gly Ile Glu Glu Met Cys Arg Asp Gln	
325 330 335	
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Phe Ser Ser His Arg Phe Glu Ala Val Ile His Phe Ala Gly Leu Lys
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Ala Val Gly Glu Ser Val Gln Lys Pro Leu Leu Tyr Tyr Asp Asn Asn
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210 215 220

His Leu Thr Val Tyr Gly Thr Asp Tyr Asn Thr Lys Asp Gly Thr Gly
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Val Arg Asp Tyr Ile His Val Val Asp Leu Ala Asp Gly His Ile Ala
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